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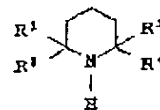
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(72)Inventor : TERANO MINORU  
SOGA HIROKAZU  
INOUE MASUO

## (54) CATALYST FOR POLYMERIZING OLEFINS

(57)Abstract:

PURPOSE: To obtain a catalyst capable of providing a highly stereo-regular polymer having a well-ordered shape, acting in high activity in polymerizing an olefin, comprising a solid catalytic component prepared by a specific method, a piperidine derivative and an organoaluminum compound.



CONSTITUTION: A catalyst consisting of (A) a solid catalytic component obtained by preparing a uniform solution from a substance obtained by grinding magnesium chloride and silicon oxide,  $\leq 2$ pts.wt. based on 1pt.wt. of the substance of a tetraalkoxytitanium, an aliphatic hydrocarbon (e.g. pentane or hexane) liquid at  $-30$ W $50^{\circ}\text{C}$  and an aliphatic alcohol (e.g. ethanol) liquid at  $-30$ W $50^{\circ}\text{C}$ , dripping  $\text{TiCl}_4$  at  $\leq 0^{\circ}\text{C}$  to the solution without causing sediment, heating the prepared solution while stirring, adding a phthalic diester to the solution at  $\geq 80^{\circ}\text{C}$  while stirring, separating the prepared solid product and bringing  $\text{TiCl}_4$  into contact with the solid product (B) a di- or tetra-substituted piperidine derivative shown by the formula ( $\text{R}_1\text{WR}_4$  are H or alkyl) and (C) an organoaluminum compound.

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